

What is claimed is:

1. A signal line driving circuit of a liquid crystal display for applying a pre-charging voltage and a gradation voltage corresponding to a picture data to a plurality of signal lines comprising:

a picture data comparator for comparing said picture data before one horizontal period with said picture data to be next displayed for each signal line; and

2. a switch controller for controlling a supply of said pre-charging voltage in accordance with a result compared by said picture data comparator.

3. A signal line driving circuit of a liquid crystal display according to claim 1, wherein said switch controller does not apply said pre-charging voltage if said gradation voltage of said picture data to be next displayed is within a certain range of said gradation voltage of said picture data before one horizontal period.

4. A signal line driving circuit of a liquid crystal display according to claim 1, wherein said switch controller does not apply said pre-charging voltage if said gradation voltage of said picture data to be next displayed agrees with said gradation voltage of said picture data before one horizontal period.

5. A signal line driving circuit of a liquid crystal display according to claim 1, wherein said switch controller applies said pre-charging voltage only if a polarity of said gradation voltage of said picture data to be next displayed is different from a polarity of said gradation voltage of said picture data before one horizontal period.

5. A signal line driving circuit of a liquid crystal display according to claim 2, wherein said switch controller applies said pre-charging voltage if a polarity of said gradation voltage of said picture data to be next displayed is different from a polarity of said gradation voltage of said picture data before one horizontal period.

6. A signal line driving circuit of a liquid crystal display according to claim 3, wherein said switch controller applies said pre-charging voltage if a polarity of said gradation voltage of said picture data to be next displayed is different from a polarity of said gradation voltage of said picture data before one horizontal period.

7. A signal line driving circuit of a liquid crystal display according to claim 1, wherein said switch controller

applies said gradation voltage by using a first operational amplifier suitable for a boosting operation if said gradation voltage of said picture data to be next displayed is higher than said gradation voltage of said picture data before one horizontal period,

applies said gradation voltage by using a second operational amplifier suitable for a voltage drop operation if said gradation voltage of said picture data to be next displayed is lower than said gradation voltage of said picture data before one horizontal period, and

applies said gradation voltage by using any one of said first and second operational amplifiers if said gradation voltage of said picture data to be next displayed is equal to said gradation voltage of said picture data before one horizontal period.

8. A signal line driving method of a liquid crystal display for applying a pre-charging voltage and a gradation voltage corresponding to a picture data to a plurality of signal lines, the method comprising the step

5 of:

comparing said picture data before one horizontal period with said picture data to be next displayed; and
controlling a supply of said pre-charging voltage in accordance with that compared result.

9. A signal line driving method of a liquid crystal display according to claim 8, wherein it does not apply said pre-charging voltage if said gradation voltage of said picture data to be next displayed is within a
5 certain range of said gradation voltage of said picture data before one horizontal period.

10. A signal line driving method of a liquid crystal display according to claim 8, wherein it does not apply said pre-charging voltage if said gradation voltage of said picture data to be next displayed agrees with said
5 gradation voltage of said picture data before one horizontal period.

11. A signal line driving method of a liquid crystal display according to claim 9, wherein it applies said pre-charging voltage only if a polarity of said gradation voltage of said picture data to be next displayed
5 is different from a polarity of said gradation voltage of said picture data before one horizontal period.

12. A signal line driving method of a liquid crystal display according to claim 9, wherein it applies said pre-charging voltage if a polarity of said gradation

5 voltage of said picture data to be next displayed is different from a polarity of said gradation voltage of said picture data before one horizontal period.

13. A signal line driving method of a liquid crystal display according to claim 10, wherein it applies said pre-charging voltage if a polarity of said gradation voltage of said picture data to be next displayed is
5 different from a polarity of said gradation voltage of said picture data before one horizontal period.

14. A signal line driving method of a liquid crystal display according to claim 8, wherein it
applies said gradation voltage by using a first operational amplifier suitable for a boosting operation
5 if said gradation voltage of said picture data to be next displayed is higher than said gradation voltage of said picture data before one horizontal period,

applies said gradation voltage by using a second operational amplifier suitable for a voltage drop
10 operation if said gradation voltage of said picture data to be next displayed is lower than said gradation voltage of said picture data before one horizontal period, and

applies said gradation voltage by using any one of said first and second operational amplifiers if said
15 gradation voltage of said picture data to be next displayed is equal to said gradation voltage of said picture data before one horizontal period.